Supplementary Information

Cholesterol-modified Hydroxychloroquine-loaded Nanocarriers in

Bleomycin-induced Pulmonary Fibrosis

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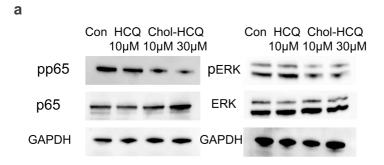
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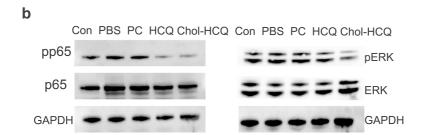
Conflict of Interest Statement

The authors declare no conflict of interest in the subject of this manuscript.

Supplementary figure 1 The general procedure for the synthesis of Chol-HCQ. (a)

The Chol-HCQ synthesis route. As described in Methods, Chol-HCQ was synthesized through a simple two-step reaction. Specifically, cholesterol and succinic anhydride were used to prepare the intermediate Chol-suc, which was subsequently reacted with HCQ to form Chol-HCQ.

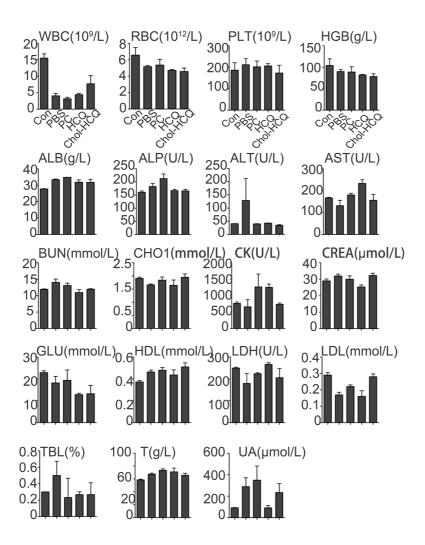




Supplementary figure 2 Original western blots of phosphorylated ERK1/2 and

NF-κB in lung fibroblasts and tissues.

The lung fibroblasts (a) and lung tissues (b) of experimental rats treated with Chol-HCQ were homogenized in RIPA lysis buffer. The western blot gels have been run under the same experimental conditions. The phosphorylation of ERK1/2(Thr202/Tyr204) and NF-κB were determined and GAPDH was used as internal control. The western blots showed here are original images in the main figure (Figure2, 4).



Supplementary figure 3 Blood test and serological biochemical analysis for safety evaluation of Chol-HCQ liposomes. To study the effects of Chol-HCQ liposomes on the physiology in experimental rats; blood test and serological biochemical analysis were performed on day 28. And all the biochemical indexes of Chol-HCQ liposomes or HCQ liposomes treated mice were approaching to the normal ranges. Data are representative of three separate experiments, n=6.